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APPLICATION NO FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 2119 09:767,124 01/22/2001 Gerald Oberschmidt 450117-02808

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FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151

EXAMINER KINKEAD, ARNOLD M

PAPER NUMBER

ART UNIT 2817

DATE MAILED: 06/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | M |
|--|---|---|--------------|
| | Application No. | Applicant(s) | |
| , | 09/767,124 | OBERSCHMIDT ET AL. | |
| Office Action Summary | Examiner | Art Unit | |
| Office Action Summary | Arnold M Kinkead | 2817 | |
| The MAILING DATE of this commun | nication appears on the cover she | et with the correspondence address | ; |
| | | | |
| A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this common states and the period for reply specified above is less than thirty (6) If NO period for reply is specified above, the maximum so Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). | s of 37 CFR 1.136(a). In no event, however, r munication. 30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (t | nay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commun. | nication. |
| Status 1) Responsive to communication(s) f | filed on <u>21 April 2003</u> . | | |
| E - Contactinal | 2h) This action is non-final. | | |
| 2a) This action is FINAL. 3) Since this application is in condition closed in accordance with the pra | resultaneous except for form | al matters, prosecution as to the m | erits is |
| Disposition of Claims | | | |
| 4) Claim(s) 21-34 is/are pending in the | he application. | nn | |
| 4a) Of the above claim(s) is, | | л. | |
| 5) Claim(s) 21,23,28 and 30 is/are al | lowed. | | |
| 6) Claim(s) 22,24,25,29,31 and 32 is | | | |
| 7) Claim(s) 26,27,33, and 34 is/are o | objected to. | ont | |
| 8) Claim(s) are subject to rest | triction and/or election requirement | ;;;t. | |
| Application Papers | the Everniner | | |
| 9)☐ The specification is objected to by 10)☐ The drawing(s) filed on is/a | The Examiner. | to by the Examiner. | |
| , that any | objection to the drawing(s) be new | ill abeyance. Good or Gritting (| |
| Applicant may not request that any 11) The proposed drawing correction 1 | filed on is: a) approved | b) disapproved by the Examiner. | |
| 11) The proposed drawing corrected trawings are | required in reply to this Office action | on. | |
| 12) The oath or declaration is objected | d to by the Examiner. | | |
| - : : | | | |
| 13) Acknowledgment is made of a cl | aim for foreign priority under 35 | U.S.C. § 119(a)-(d) or (f). | |
| a) ☐ ∧!! b) ☐ Some * c) ☐ None (| of: | | |
| 1 Cortified copies of the prio | ority documents have been recei | ved. | |
| a Court against of the price | ority documents have been recei | ved in Application No | |
| 3. Copies of the certified cop application from the In | oies of the priority documents han ternational Bureau (PCT Rule 1 petion for a list of the certified co | ve been received in this National 3 7.2(a)). pies not received. | |
| * See the attached detailed Office at 14) Acknowledgment is made of a cla | aim for domestic priority under 35 | 5 U.S.C. § 119(e) (to a provisional a | application) |
| a) ☐ The translation of the foreig 15) ☐ Acknowledgment is made of a cla | - Janguago provisional applicati | on has been received. | |
| 1 | which the same of | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Rev 3) Information Disclosure Statement(s) (PTO-14 | 4) | Interview Summary (PTO-413) Paper Nots Notice of Informal Patent Application (PTC Other: | s))-152) |
| 3) I mornauon bississi s statistici (7) | | Part of Paner No. 12 | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 22,24,25,29, ,31, and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by (Hornak et al of record).

The reference by Hornak et al discloses a demodulator(see figure 19 and pp. 31-32)having an I/Q modulated signal input and further comprising local oscillator means(127 and 131), mixer(123), and LPF(277); an A/D converter is shown(273). The modulation control means is shown by (129) to cause the local oscillator means to be modulated with two states(I/Q)with the same magnitude (only phase shift occurs due to (133))during the symbol period of the modulated digital signal. Two quadrature(90 degrees)related, serially arranged information parts are output from the A/D converter output. The method steps being inherent.

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Allowable Subject Matter

- 3. Claims 21,23,28, and 30 are allowed.
- 4. Claims 26,27, 33 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The examiner could not find fair suggestion for the demodulation structure and method claimed including the digitally modulation signal modulated in a signal band having a center frequency and said local oscillator signal with a center frequency offset by half of the signal band width of the modulated digital signal. Band pass filtering the modulated LO signal is not suggested.